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figure shows three occurrences of the first residue in each pair, followed by one occurrence of the second residue in each pair. The addition of the "M" to the amended sequence at this position is consistent and insert this representation.

The amendment to page 43, line 3, which inserts the sequence "P(K/E)(K/L)(Y/F)FhXhDh (SEQ ID NO:482)", is justified by its presence in claim 100 of WO 98/14592, published April 9, 1998, from the parent application PCT/US97/17618, filed October 1, 1997, where the corresponding sequence in its entirety can be found. Further, this peptide motif can be found in the instant application at Figure 55 "Motif A", where "PcLYFh hDh" appears on the line marked "TRT con", representing the TRT consensus sequence in Motif A. Close inspection of the "Sp_Trt1p", "hTRT", "Ea_p123" and "Sc_Est2p" peptides in this region shows the position occupied by "c" (representing a charged amino acid residue) in the consensus peptide motif corresponds to either "K" or "E" at this position in the individual peptides making up the homology group. Similarly, the consensus "L" from the peptide motif actually corresponds to either "K" or "L" at this position in the individual peptides, and the consensus "Y" in the peptide motif actually corresponds to "Y" or "F" at this position in the individual peptides. Lastly, Figure 48, "Motif A" also shows the "P(K/E)(K/L)(Y/F)FhXhDh" element at the start of the individual peptides in the homology group in "Motif A". This region begins at eight amino acid residues, and ends five residues prior to the conserved "D" of the consensus peptide represented by "h hDh", exactly as found in the amended peptide motif.

The deletion of the sentence on page 143, line 26 reflects the fact that no discernable characters in Figure 12 appear to be presented in bold-face type.

The translation of "TGA" in standard usage is a "stop" codon, represented in the amino acid translations in Figure 12 by "×". In the *Euplotes aediculatus* sequences of Figure 12, non-standard codon usage translates "TGA" as "Cys" or "C". In a few cases, however (SEQ ID NO:3, nucleotide positions 161-163 = SEQ ID NO:179, position 1; positions 706-708 = SEQ ID NO:163, position 48; and positions 1462-1464 = SEQ ID NO:172, position 11), "TGA" has been translated in Figure 12 by "×". For consistency, the Sequence Listing has included these three sequences in conformity to the non-standard codon usage, and insert these three positions coded by "Cys".

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The amendment to page 155, lines 24-31, and page 156, lines 1-5, places the actual GenBank sequence for EST AA281296, given at residues 1679 to 2067 of SEQ ID NO:117, in the Specification where another sequence was inadvertently substituted. This amendment corrects an error of a typographical nature made and insertout deceptive intent.

The amended sequence for SEQ ID NO:137 at page 177, line 1 and page 191, line 17, corrects a lower case "c" to an upper case "C", where altered nucleotides are in lower case, in the sequence "5'-TGCGCACGTGGGAAGCCCTGGCagatctgAatt CcaCcATGCCGCGCGCTCCCCGCTG-3'" (emphasis added). Support for this amendment may be found at all other occurrences of the exact sequence on page 177, lines 14 and 15, page 190, lines 10 and 11, and page 190, lines 18 and 19.

The amendment on page 181, line 1, to add the last two lines of amino acids to the fusion protein on page 180, lines 16-36 (SEQ ID NO:141), finds support on pages 166-167 in WO 98/14592, published April 9, 1998, from the parent application PCT/US97/17618, filed October 1, 1997, where the corresponding sequence in its entirety can be found. This amendment corrects an error of a typographical nature made and insertout deceptive intent.

The amendment on page 198, line 1, corrects an error of a typographical nature made and insertout deceptive intent. Support for this amendment can be found on page 250 in parent application PCT/US97/17885, filed October 1, 1997, which was published as WO 98/14593 on April 9, 1998, where the correct primer designation "hTR-445" appears.

All other amendments pertain to assignment or correction of unique identifiers, explanation of sequence identifiers in Figures, or correction of typographical errors.

Applicants respectfully submit that the subject matter encompassed by the amended claims are adequately described in the specification as submitted. Accordingly, the amendment does not raise an issue of new matter and entry thereof is respectfully requested.

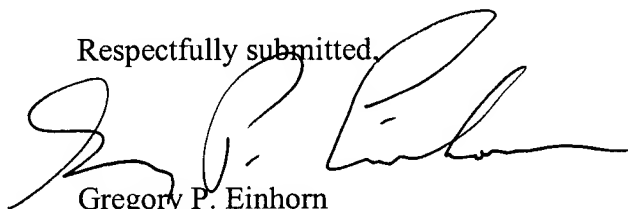
Authorization to charge required fees to deposit account

Applicants do not believe any fees are required for submission of this preliminary amendment. However, if necessary, please charge any required fees to the undersigned's Deposit Account No. 20-1430. Please credit any overpayment to the above deposit account.

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If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at (415) 576-0200; or Ted Apple, Registration No. 36,429, at (650) 324-6370.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'G. P. Einhorn', written over the typed name.

Gregory P. Einhorn
Reg. No. 38,440

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